



## SUPERB KINGDOM LIMITED

Room7A, 9/F., Block B, Hong Kong Industrial Centre  
 489-491 Castle Peak Road, Lai Chi Kok, Kowloon, Hong Kong  
 Telephone: (+852) 3954 5598

<b>Lighting Type:</b>	Downlight	<b>Description:</b>	SEGULA Induction Waterproof LED Uplight
<b>Manufacturer:</b>	SEGULA	<b>Article Code:</b>	UL-L230
<b>Location:</b>			

## SEGULA Induction Waterproof LED Uplight



### Product Feature

- \* Precision German Engineering
- \* SEGULA Constant Current Algorithm
- \* Unique Inductive Transfer to LED Allowing for Greater Waterproof Protection.
- \* Comes with a 316L Stainless Steel Bezel
- \* Potted Base with Molded Cable Entry
- \* Heads can be Replaced without need for disconnection
- \* For Cement Fixing

### Description

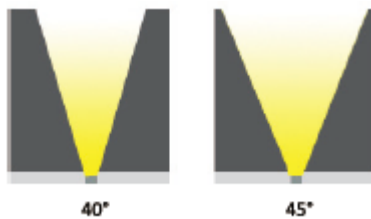
Power: 18W  
 Input Voltage: AC230V/AC110V/DC24V  
 Color Temp: 3000K  
 Waterproof Rating: IP67/IP68  
 CRI: >90 Ra  
 MacAdam: 3 Step  
 Light Source: CREE  
 Power Factor: >0.95

### Accessories:



Honeycomb louver

### Beam Angle:



### Warranty

Module: 2 Years

### Application

Pathways, Feature Highlighting, Facade Lighting, Driveways

Item No	Dimension	Cutout	Lumen	Beam Angle	Adjustable	Dimmable	Energy Class
UL-L230	Φ209*101mm	Φ233*183mm	1350-1450lm	40° / 45°	No	No	A+

## Light Source

### Cree® XLamp® CXA2540 LED



#### PRODUCT DESCRIPTION

The XLamp® CXA2540 LED array expands Cree's family of high-flux, multi-die integrated arrays, offering high performance in an easy-to-use platform. With XLamp LED lighting-class reliability, the CXA2540's uniform emitting surface enables both directional and non-directional lighting applications and luminaire and lamp designs. Available in 2-step, 3-step and 4-step color consistency, and featuring a 19-mm optical source, the CXA2540 brings new levels of flux and efficacy to this form factor.

The [CX Family LED Design Guide](#) provides basic information on the requirements to use the CXA2540 LED successfully in luminaire designs.

#### FEATURES

- Available in 4-step, 3-step and 2-step EasyWhite® bins at 2700 K, 3000 K, 3500 K, 4000 K & 5000 K CCT and 4-step EasyWhite bins at 5700 K & 6500 K CCT
- Available in ANSI white bins at 4000 K, 5000 K, 5700 K & 6500 K CCT
- Available in 70-, 80-, 90- and 93-minimum CRI options
- Forward voltage option: 36-V class
- 85 °C binning and characterization
- Maximum drive current: 2100 mA
- 115° viewing angle, uniform chromaticity profile
- Top-side solder connections
- Thermocouple attach point
- NEMA SSL-3 2011 standard flux bins
- Mechanical and optical footprint consistent with CXA2520 and CXA2530
- RoHS and REACH compliant
- UL® recognized component (E349212)

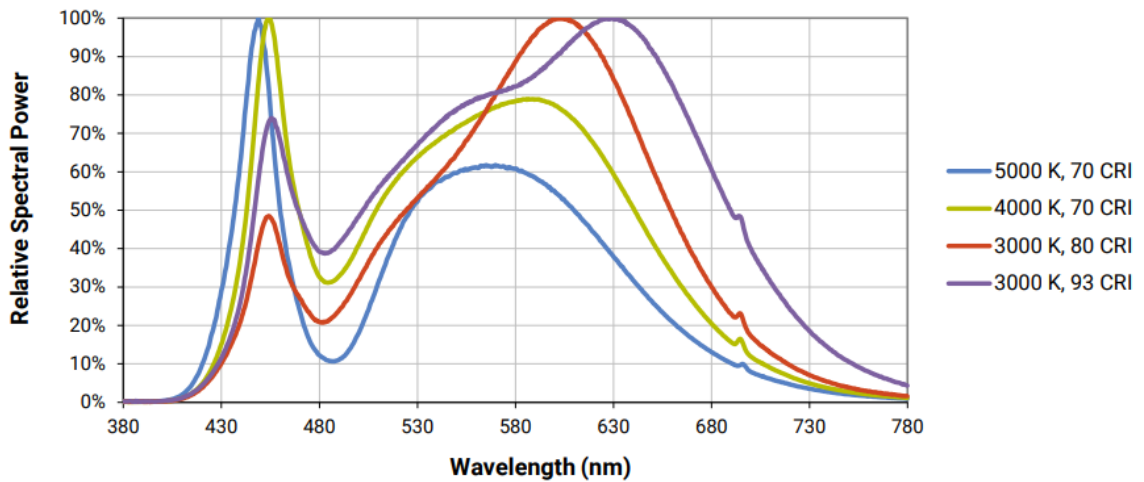
## CHARACTERISTICS

Characteristics	Unit	Minimum	Typical	Maximum
Viewing angle (FWHM)	degrees		115	
ESD withstand voltage (HBM per Mil-Std-883D)	V			8000
DC forward current	mA			2100*
Reverse current	mA			0.1
Forward voltage (@ 1100 mA, $T_j = 85\text{ }^\circ\text{C}$ )	V		36.2	
Forward voltage (@ 1100 mA, $T_j = 25\text{ }^\circ\text{C}$ )	V			42

\* Refer to the Operating Limits section.

## RELATIVE SPECTRAL POWER DISTRIBUTION

The following graph is the result of a series of pulsed measurements at 1100 mA and  $T_j = 85\text{ }^\circ\text{C}$ .



## RELATIVE LUMINOUS FLUX

The relative luminous flux values provided below are the ratio of:

- Measurements of CXA2540 at steady-state operation at the given conditions, divided by

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The relative luminous flux values provided below are the ratio of:

- Measurements of CXA2540 at steady-state operation at the given conditions, divided by
- Flux measured during binning, which is a pulsed measurement at 1100 mA at  $T_j = 85\text{ }^\circ\text{C}$ .

For example, at steady-state operation of  $T_c = 55\text{ }^\circ\text{C}$ ,  $I_f = 1760\text{ mA}$ , the relative luminous flux ratio is 140% in the chart below. A CXA2540 LED that measures 4600 lm during binning will deliver 6440 lm ( $4600 \times 1.4$ ) at steady-state operation of  $T_c = 55\text{ }^\circ\text{C}$ ,  $I_f = 1760\text{ mA}$ .

